

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
1 July 2004 (01.07.2004)

PCT

(10) International Publication Number  
**WO 2004/054353 A3**

(51) International Patent Classification<sup>7</sup>: **A01K 47/02**

(21) International Application Number:  
PCT/IB2003/006496

(22) International Filing Date:  
12 December 2003 (12.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/433,495 13 December 2002 (13.12.2002) US

(71) Applicant (for all designated States except US): **6116469**  
**CANADA INC.** [CA/CA]; 303 Charlotteville West 1/4  
Line RR#1, St. Williams, Ontario NOE 1PO (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BIGHAM, Ian, B.**  
[CA/CA]; 303 West 1/4 Line RR#1, St. Williams, Ontario  
NOE 1PO (CA). **SPERLICH, Andreas, W.** [CA/CA]; 909  
Front Road RR#2, St. Williams, Ontario NOE 1PO (CA).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR,  
CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,  
MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,  
SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

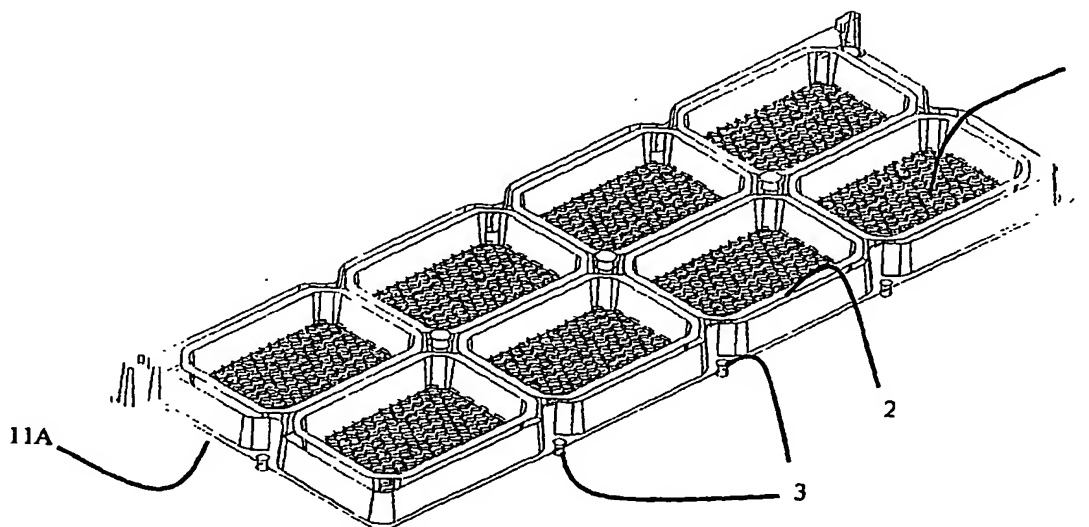
(84) Designated States (*regional*): ARIPO patent (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,  
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

[Continued on next page]

(54) Title: DEVICE FOR THE PRODUCTION OF COMB HONEY



(57) Abstract: A device for the collection and packaging of comb honey comprises a frame structured to fit within a honey collection section of a beehive, such as a beehive super. The frame has a plurality of cavities for collecting the honey. The frame has separation structures between the cavities to facilitate separation of the cavities from the frame. In another embodiment, the frame has opposing sides and a plurality of outwardly facing cavities in each of the sides for collecting the honey. In another embodiment, the frame comprises first and second frame halves on opposing sides of the frame. Each of the frame halves includes a backside that is enclosed by the frame to keep bees away from the backside.

WO 2004/054353 A3



(88) Date of publication of the international search report:  
2 December 2004

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A01K47/02

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 27 16 987 A (KRASNIK MATTHAEUS DIPL ING) 3 November 1977 (1977-11-03) figures 1-6 claims 1-4	1-20
X	US 4 185 343 A (ROSS THOMAS) 29 January 1980 (1980-01-29) cited in the application abstract figures 1-5 claims 1-8	1-20
A	US 4 372 000 A (HURD EDFORD N) 8 February 1983 (1983-02-08) abstract figures 1-4	1-20

-/--

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

5 October 2004

Date of mailing of the International search report

15/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Van Woensel, G

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 639 962 A (HOGG JOHN A) 3 February 1987 (1987-02-03) cited in the application -----	1-20
A	US 4 435 865 A (HOGG JOHN A) 13 March 1984 (1984-03-13) cited in the application -----	1-20
A	US 4 329 749 A (HOGG JOHN A) 18 May 1982 (1982-05-18) cited in the application -----	1-20

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
DE 2716987	A	03-11-1977	AT	348821 B	12-03-1979
			AT	287576 A	15-07-1978
			DE	2716987 A1	03-11-1977
US 4185343	A	29-01-1980	CA	1112945 A1	24-11-1981
US 4372000	A	08-02-1983	NONE		
US 4639962	A	03-02-1987	AU	576995 B2	08-09-1988
			AU	3818885 A	29-08-1985
			CA	1234316 A1	22-03-1988
			EP	0152850 A2	28-08-1985
			NZ	211001 A	08-01-1988
US 4435865	A	13-03-1984	US	4329749 A	18-05-1982
US 4329749	A	18-05-1982	US	4435865 A	13-03-1984